

1    **What Is Claimed Is**

2    1. A guide clamp including:

3         a body for installment on an object;

4         a rod movable along the body;

5         a stationary jaw secured to the body for contact with an edge  
6              of the object;

7         a movable jaw assembly movable along the body, the movable  
8              jaw assembly including:

9              ■ a movable jaw for contact with an opposite edge of the  
10              object;

11              ■ a plurality of locking plates each including an upper portion  
12              defining an aperture for receiving the rod and a lower  
13              portion extending from the upper portion at an angle,  
14              wherein the apertures are sized so that the locking plates  
15              easily slide on the rod whenever the upper portions thereof  
16              are normal to the rod but lock to the rod whenever the  
17              upper portions thereof are tipped from the normal position  
18              as the upper portions of the locking plates are moved by  
19              means of the rod while the lower portions of the locking  
20              plates are stopped by means of the movable jaw;

21              ■ a release carrier movable relative to the movable jaw ; and

22              ■ a spring compressed between the movable jaw and the  
23              locking plates for returning the upper portions of the  
24              locking plates to the normal position; and

25         a cam pivotally connected with the rod for contact with the  
26              stationary jaw so that pivotal of the lever and the contact of the

1                   cam with the stationary jaw cause movement of the rod along  
2                   the body.

3   2. The guide clamp according to claim 1 further including a lever  
4                   extending from the cam for easy rotation of the cam.

5   3. The guide clamp according to claim 1 wherein the movable jaw  
6                   includes a first end, a second end, a bottom, a top, two walls and a  
7                   recess defined in the top, and the release carrier includes a connector  
8                   extending through the recess of the movable jaw and including an  
9                   enlarged end for abutting the movable jaw the release carrier.

10   4. The guide clamp according to claim 1 further including an end cap  
11                   secured to the body for keeping the movable jaw assembly to the  
12                   body.

13   5. The guide clamp according to claim 1 wherein the body includes  
14                   two individual members that are connected with each other.

15   6. The guide clamp according to claim 5 further including a connecting  
16                   device for connecting the individual members of the body with each  
17                   other.

18   7. The guide clamp according to claim 6 wherein each of the  
19                   individual members of the body defines a dovetail groove, and the  
20                   locking device includes a dovetail including two sections each  
21                   inserted in the dovetail groove of one of the bodies and two screw  
22                   each driven into each of the bodies through one of the sections of  
23                   the dovetail.

24   8. The guide clamp according to claim 7 wherein each of the sections  
25                   of the dovetail defines an aperture through which one of the screws  
26                   is driven.

1 9. A guide clamp set including two guide clamps according to claim 1.

2 10. The guide clamp set according to claim 9 including a connecting

3 device for connecting the guide clamps with each other.

4 11. The guide clamp set according to claim 10 wherein the body of each

5 of the guide clamps defines a groove, and the connecting device

6 includes:

7  a connecting plate including two claws put in the groove of the

8 body of each of the guide clamps;

9  a washer; and

10  a screw driven into the connecting plate through the washer.

11 12. The guide clamp set according to claim 11 wherein the connecting

12 plate defines an aperture for receiving the screw.

13 13. A guide clamp including:

14  a body including a first face for contact with an object and a

15 second face defining a groove including an open end for

16 receiving a fastening element, a bottom and a reduced top for

17 trapping the fastening element;

18  a stationary jaw secured to the body for contact with an edge of

19 the object;

20  a movable jaw assembly movable along the body, the movable

21 jaw assembly including:

22  a movable jaw for contact with an opposite edge of the

23 object;

24  a plurality of locking plates each including an upper portion

25 defining an aperture for receiving the rod and a lower

26 portion extending from the upper portion at an angle,

1                   wherein the apertures are sized so that the locking plates  
2                   easily slide on the rod whenever the upper portions thereof  
3                   are normal to the rod but lock to the rod whenever the  
4                   upper portions thereof are tipped from the normal position  
5                   as the upper portions of the locking plates are moved by  
6                   means of the rod while the lower portions of the locking  
7                   plates are stopped by means of the movable jaw; and

8                   ■ a release carrier movable relative to the movable jaw; and  
9                   □ a cam pivotally connected with the rod for contact with the  
10                  stationary jaw so that pivotal of the lever and the contact of the  
11                  cam with the stationary jaw cause movement of the rod along  
12                  the body.

13                  14. The guide clamp according to claim 13 wherein the body includes  
14                  two individual members that are connected with each other.

15                  15. The guide clamp according to claim 14 further including a  
16                  connecting device for connecting the individual members of the  
17                  body with each other.

18                  16. The guide clamp according to claim 15 wherein the groove of each  
19                  of the individual members of the body is a dovetail groove, and the  
20                  locking device includes a dovetail including two sections each  
21                  inserted in the dovetail groove of one of the bodies and two screw  
22                  each driven into each of the bodies through one of the sections of  
23                  the dovetail.

24                  17. The guide clamp according to claim 16 wherein each of the sections  
25                  of the dovetail defines an aperture through which one of the screws  
26                  is driven.

1 18. A guide clamp set including two guide clamps according to claim  
2 13.

3 19. The guide clamp set according to claim 18 including a connecting  
4 device for connecting the guide clamps with each other.

5 20. The guide clamp set according to claim 19 wherein the body of each  
6 of the guide clamps defines a groove, and the connecting device  
7 includes:

8  a connecting plate including two claws put in the groove of the  
9 body of each of the guide clamps;

10  a washer; and

11  a screw driven into the connecting plate through the washer.

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